

## N Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax and RoHS Compliant

Fairview Microwave's UMCX 2.5 (also known as 2.5mm UMCX) ultra-miniature cable assemblies have a mated connection height of 2.5mm. They are constructed using a flexible micro-coax cable and are comparable in design to Hirose U.FL®, IPEX MHF® as well as other UMCX connector and cable manufactures. Fairview's other UMCX 2.1, WMCX 1.6 and HMCX32 1.2 connectors are also available for use on our 0.81mm in-series micro-coax jumpers. These UMCX 2.5 are available in the following coax types; 0.81mm, 1.13mm, RG178 and RG178-DS.

Fairview's UMCX 2.5 cables can be ordered in between-series configurations with Female Bulkhead versions of SMA, Reverse Polarity SMA and Type N connectors as well as an SMA Male option. With frequencies up to 6 GHz, these UMCX cables are perfectly suited for wireless communications such as Wi-Fi, Bluetooth, GPS, ZigBee and LTE. These cables offer a small form factor, flexible coax and provide a low profile RF connection perfect for board-to-board connectivity. Fairview's UMCX 2.5 cable assemblies are available from stock in standard lengths and will ship same-day they are ordered. Custom lengths are also available upon request with slightly longer lead times.



### Configuration:

- N Female Bulkhead
- UMCX 2.5 Plug
- 1.37mm

### Features:

- 2.5mm mated assembly height
- operate from DC to 6 GHz
- 100% RF and Continuity tested
- Compatible with Hirose U.FL® and IPEX MHF® products
- Available in 0.81mm, 1.13mm, 1.37mm, RG178 and RG178-DS shielded coax
- Small foot print with easy snap on/off mating

### Applications:

- Wireless LAN, Mini PCI
- Mobile Antenna/GPS/Radio Systems
- PDA/PCS/Cellular Handset applications
- Wireless Communications systems (LAN, GSM, PCS, WCDMA, UMTS)

### Electrical Specifications

Frequency Range	DC to 3 GHz
Impedance	50 Ohms
Max VSWR	1.35:1

### Performance by Frequency

Description	F1	F2	F3	F4	F5
Frequency	250 MHz	500 MHz	1000 MHz	2.5 GHz	3 GHz
VSWR	1.35:1	1.35:1	1.35:1	1.35:1	1.35:1
Return Loss (dB)	16.54	16.54	16.54	16.54	16.54
Insertion Loss (dB/ft)	0.47	0.58	0.83	1.12	1.2
(dB/m)	1.54	1.9	2.72	3.67	3.94

### Mechanical Specifications

#### Temperature

Temperature Operating Range	-55 to +125 deg C
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#### Cable

Description	Cable
Cable Type	1.37mm
Inner Conductor Type	Stranded
Cable Inner Conductor	Copper, Silver
No of Shields	1
Cable Outer Conductor 1	Tinned Copper
Dielectric Type	FEP
Jacket Material	FEP
Jacket Diameter	0.053 in [1.35 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	N Female Bulkhead	UMCX 2.5 Plug
Configuration	Straight	Straight
Mount Method	Bulkhead	
Inner Conductor Material & Plating	Phosphor Bronze, Gold	
Body Material & Plating	Brass, Nickel	

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant  
 REACH Compliant

Yes  
 12/19/2011

Notes:

- Values at +25 °C, sea level

**How to Order**

Part Number Configuration:

**FMCA1010 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

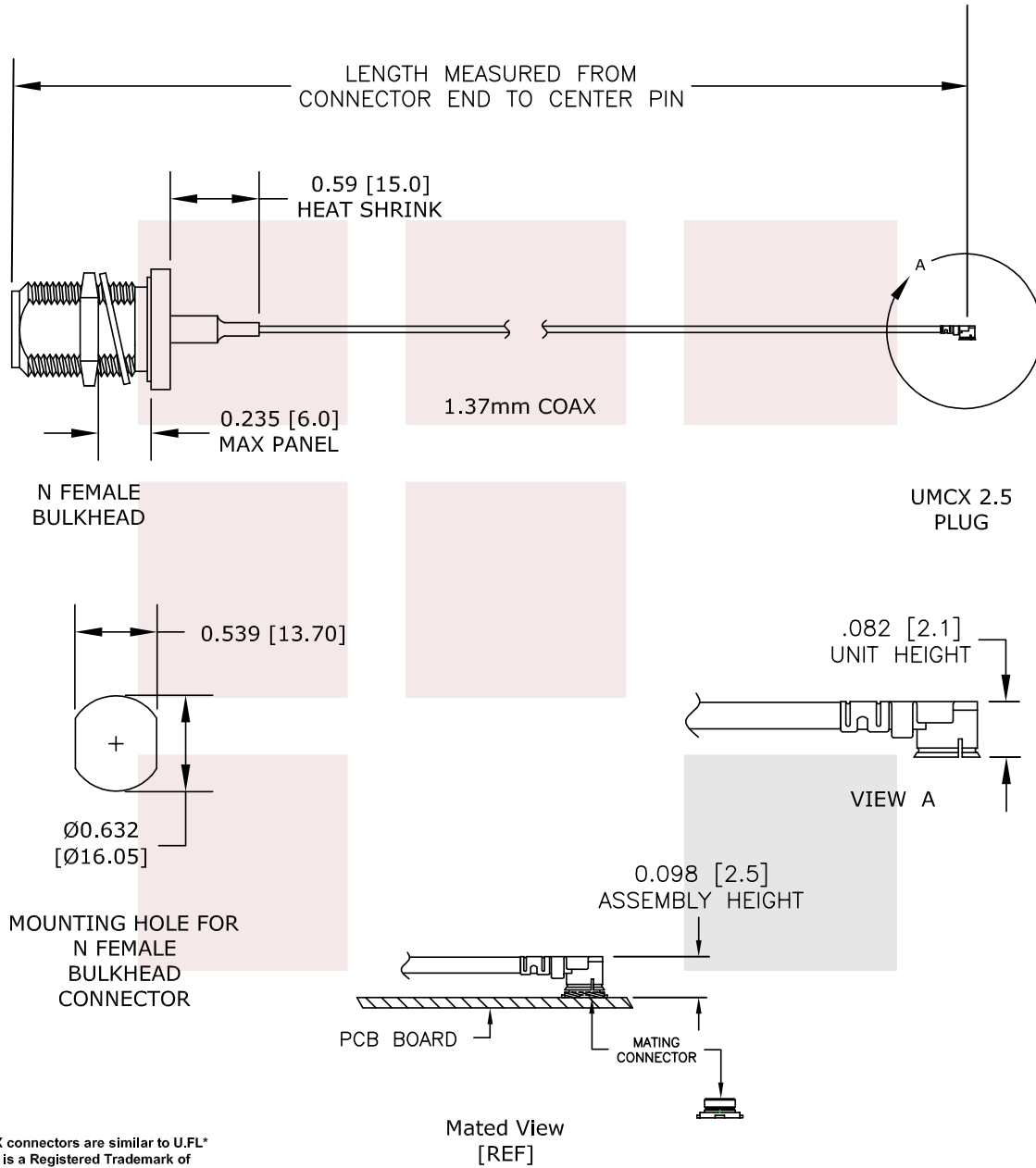
Example: FMCA1010-12 = 12 inches long cable  
 FMCA1010-100cm = 100 cm long cable

N Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax and RoHS Compliant from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [N Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax and RoHS Compliant FMCA1010](#)

URL: <http://www.fairviewmicrowave.com/n-female-umcx-2.5-plug-cable-1.37mm-coax-fmca1010-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



UMCX connectors are similar to U.FL\*  
\*U.FL is a Registered Trademark of Hirose Electronic Group

<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE N Female Bulkhead to UMCX 2.5 Plug Cable 1.37mm Coax and RoHS Compliant		DWG NO FMCA1010		CAGE CODE 3FKR5	
CAD FILE	031215	SHEET	SCALE	N/A	SIZE A 150